

Application No. 10/657,093
Docket No. YOR909980228US4

AMENDMENTS TO THE SPECIFICATION

On page 8, please amend the paragraph ^{beginning on line 13} comprising lines 22 and 24.

FIG. 1a represents an overhead view of an embodiment of a substrate 1 with two electrodes, a first electrode 3 and a second electrode 5, provided on the surface of the substrate or on other structures formed in and/or on the substrate. The first electrode 3 and second electrode 5 may be provided in close proximity to each other. The distance between the first electrode and the second electrode may vary, depending upon the embodiment. According to one example, the first electrode and the second electrode may be separated by a distance of from about 0.1 μm to about 100 μm . Typically, the electrodes are separated by a distance of from about 1 μm to about 10 μm . Additionally, the electrodes typically have a thickness of about 20 nm to about 1000 nm.

On page 15, please amend the paragraph comprising lines 1-5.

According to one embodiment, the DNA is λ -DNA. However, any DNA molecule having any sequence of bases may be utilized according to the present invention. In other words, the DNA may be subjectively selected.